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BULLETIN
GEORGIA ACADEMY OF SCIENCE

Volume VII December, 1949 Number 3

OFFICERS

President, Dr. H. B. Friedman
Vice-President, Dr. James Stokes
Sec.-Treas., Dr. A. S. Edwards
Historian, Dr. W. B. Redmond

EXECUTIVE COUNCIL

1949-50

M. W. Keller, Katherine Omwake, Thelma Howell

1950-51

Blake Van Lear, C. Lombard Kelly, W. M. Spicer

1951-52

Lucien Harris, Catherine Newton, W. F. Hamilton

EX-OFFICIO MEMBERS

The officers

Fellow Members:

It is a pleasure to extend greetings of the season to each of you. May you have the kind of Christmas you like, and may all good things come your way in 1950. As for myself, I am hoping for a Christmas that is any color except white. Too much strain on my tired old corpuscles.

Our able and most co-operative Secretary has told you in his message of the general nature of our plans. Nothing sensational or out of the ordinary is contemplated, but a good deal of careful procedure is being laid in preparation for our annual meeting, and in the furthering of the splendid beginnings of the work of our Junior Academy.

Towards the work for the meeting, and consistent with the new Constitution adopted by the Academy at last year's meeting, our group is being divided in the five classifications as provided, namely: A. Biological Sciences; B. Chemistry; C. Geology, Geography and related fields; D. Physics, Mathematics, Engineering and related fields; and E. Psychology and Medicine.

Each of us is a member of the Academy as a whole; also one should affiliate with one or even more of the above named sections as the expression of his major interest. It is hoped that as we continue to grow, groups with common interests will appeal to the Academy's Council for the creation of the appropriate additional sections.

The Constitution also provides

that each of our sections have a chairman and a secretary. Since no formal provision was set up to elect these officers for our first year's operation under the new plan, the Council has authorized me to appoint such officers who will aid in the organization of each section, and serve until our meeting this spring. At that time, each section will hold a brief business meeting as part of its program and elect its official leaders for the year following. Each section also has one representative on the Executive Council.

Several of these sectional officers have already been appointed and are functioning. The complete list will be announced shortly. It would seem to me that the responsibilities of these officers are twofold: to aid in strengthening our Academy by a systematic attempt to obtain new members; and to plan an appropriate program that will interest the members of their sections. In at least one section previously, the symposium idea has been tried with success—the having a series of invited papers on one general subject. Of course, there is always room for individual papers either of a research nature or purely a review. Each section should provide its own review committee to determine what papers would be of sufficient interest, and to determine the relation of these papers to the integrated whole.

After these officers are named, it is hoped that the members will co-operate fully in assisting them. Certainly we can accomplish more if more of us are working together for the same aim. Suggestions will be welcomed at every level, by the section leaders, the council, or your executive officers.

Plans for the Junior Academy are in partial fulfillment also. Noteworthy is the work of Mrs. Helen C. Richardson as Chairman of the Junior Academy, of Eugene Sanders as Chairman of the Fair Committee, and of Professor John L. Daniels, who heads a Committee of the Senior Academy whose objective is to raise funds on a continuing basis, primarily to support scholarships for promising young scientists.

In these ways, therefore, we can report progress. There is much that we can do yet to continue to build our Academy. We know that you will do your part. If you know of a prospective member who would take an interest in our work, put his name on a postcard and mail it to our Secretary. Will those in academic work each act as a committee of one to send us the names of any of your department staff who are not members? Will those in industry or commercial work send in the names of newcomers to our state—for there are many new industries here now—or colleagues in their own firm who should be members?

By so doing, we can all profit by a wholesome growth, by mak-

ing our meetings more interesting, more varied, more fruitful to ourselves, and more important, to the advancement of science in Georgia and the South.

Harold B. Friedman

REPORT OF THE SECRETARY

Emphasis this year has been placed upon organization of work in connection with the Junior Academy, especially to develop a method of handling publicity, obtaining of funds, and handling of funds for the Science Fair. The undersigned strongly recommended a separate treasurer for the funds of the Fair since the amounts involved may soon be considerably greater than those handled for the Senior Academy.

Dr. O. R. Quayle is the Chairman of the Junior Academy Advisory Committee. Mrs. William Richardson is Chairman for the Junior Academy; Eugene Sanders, Chairman, Science Fair Committee; R. T. Lagemann, Chairman, Publicity Committee, and W. W. Keller, Chairman, Science Talent Search.

The committee has reported that they unanimously prefer that the 1950 Science Fair be held in Atlanta. It was agreed that the buildings where the 1949 Fair was held on the Emory Campus offers the best accomodations for the needs of the fair.

The interest and courtesies of Emory University are recognized and their work appreciated by the members of the Academy. But it has already been said that the High School students of the State should also be brought into touch with other institutions who are willing and able to accomodate the Fair.

The funds of the Academy should be somewhat in excess of $800.00 after all bills are paid at the end of the fiscal year, Dec. 31st. There are also $1500.00 in bonds. There have been $454.93 in the research fund from both the AAAS and the Academy interest on deposits. Of this two amounts have been granted, totalling $191.95. It is believed that this is very satisfactory since the Senior Academy assisted materially in the expense of the Science Fair last year in addition to the publication of three issues of the Bulletin.

Oglethorpe University officially invited the Academy to meet on their campus for the 1950 meeting. Most of the executive council have voted and all the votes received were in favor of accepting this invitation. It therefore appears that our 1950 meeting will be held at Oglethorpe University at such time in April as shall be decided later. Special arrangements have been offered to take care of council members who will meet the night before the regular meeting.

A. S. E.

Research Grants

In earlier years research grants from the Academy have been made

outside the University of Georgia. This year the only requests for research assistance came from the University of Georgia and two of three requests have been granted by the research committee and approved by the president. The third request was returned for more information. Both grants were made to new members. The first grant of $116.95 was granted to Dr. H. E. Calkins, Department of Bacteriology, to initiate a research project on the isolation and purification of bacterial enzymes. The money will be used entirely for supplies and equipment. The second grant was made to Dr. E. L. Odum, Department of Biology, $75.00, to assist in the bringing to completion and to actual publication, a study of the skulls of recent land mammals of southeastern United States. The completion of the study will permit the publication of a key not now available and credit will be given to The Georgia Academy of Science for assistance in bringing this work to publication. Funds for the first grant are being used from AAAS funds which are available to the Academy only if research grants are made. The second grant will be made from research funds of the Academy.

Members of the Academy are informed that there are still available for research, $262.98. These funds can be granted only to members of the Academy.

A. S. E.

Annual Meeting 1950

The Annual Meeting of the Georgia Academy of Science will be held on the campus of Oglethorpe University. Exact time of meeting, call for abstracts, etc., will be sent to members about the first of February, 1950.

The only Association as yet affiliated with the Georgia Academy of Science, the Georgia Psychological Association, holds its annual meeting in Meigs Hall, University of Georgia, January 7, 1950. Dr. Karl F. Heiser of the American Psychological Association Committee on Training in Clinical Psychology will be the special guest of the Association. The following papers are on the program:

9:00 Some Results of a Factor Analysis of a Vision Test. Virginia Zachert, Cuthbert, Georgia.

9:15 The Influence of Figural After-Effects Upon Visual Intensity Thresholds. William Bevan, Jr., Emory University.

9:30 The Characteristics of Juvenile Delinquents as Revealed by the Thematic Apperception Test. Florene M. Young, University of Georgia.

9:40 Draw-A-Person-Test — Some Case Studies.

9:55 Psychotherapy and Possibilities of Measuring Re-

sults. A. S. Edwards, University of Georgia.

10:05 The Measurement and Prediction of Student Interest in the Natural Science Subjects. S. C. Webb, Emory University.

10:20 Some Results of a Visual Performance Testing Program on Industrial Accidents. Larry Ross and Juliet Yearns, Union Bag and Paper Corporation.

10:30 The Influence of Perceived Position on the Serial Position Diffiuclty Curve. W. G. Workman, Emory University.

10:45 The Effect of Audiogenic Seizure on Food and Water Intake. W. T. James and C. R. Boyles, University of Georgia.

10:55 An Appraisal of the Graduate Record Examination. J. E. Greene and Mary Louise Mock, University of Georgia.

11:10 A Study in the Selection of Power Sewing Machine Operators in the Textile Industry. James M. Richards, Georgia Institute of Technology.

2:00 Symposium on "Counseling and Guidance Facilities Now Available in Designated Schools of Georgia."

3:15 Business Meeting.

All who are interested are cordially invited to attend these meetings.

New members whose names have not been published in our recent bulletins.

Calkins, Dr. H. E.
Dept. of Biology
University of Georgia
Athens, Georgia

Cohen, Autlin S.
Dept. of Biology
Oglethorpe University, Ga.

Conway, H. McKinley, Jr.
5009 Peachtree Road
Atlanta, Georgia

Odum, Dr. Eugene P.
Dept. of Biology
University of Georgia
Athens, Georgia

Powell, W. Frank
9 Branham Street, N.E.
Atlanta, Georgia

Sherrill, Elise
50 Church Street
LaGrange, Georgia

The Addressograph

Corrections have been made in the names and addresses in the master list as requested by members. They will be made in the addressograph at an early date. If any addresses on the covers for this issue are not correct, please send your request for change immediately on a post card.

Communication from AAAS and CARE

Dr. Howard A. Meyerhoff, Administrative Secretary of AAAS, has addressed letters to the secretaries of the various state academies of science, including a letter from Milton L. Smith, Director, Educational Unit of CARE.

The two letters state requests for cooperation on the part of academies and of individuals for assistance in the rehabilitation of scientific libraries in war-devastated countries. The program has been worked out by CARE in collaboration with UNESCO. The request in part is as follows: "May we suggest the following for consideration by your association: 1) A number of organizations have officially requested their membership for a special contribution sent through their headquarters to CARE for the purchase of books in the categories of their major interest. These books will bring up to date a number of overseas libraries chosen by these associations. 2) Other organizations have made funds available from their own treasury for the same purpose. 3) Still other associations are mailing the enclosed folder to their memberships with official endorsements and appeals for support and editorialized or publicized the program in their house organs." Dr. Meyerhoff urges the support of this cause.

The Library of the Academy

Members of the Academy will remember that the General Library of The University of Georgia has undertaken to organize and to maintain the Library of the Georgia Academy. To this end the Academy sends to the Librarian 150 copies of all publications of the Academy for the purpose of filing and of exchange.

Of the various recent volumes received by exchange the Proceedings of the Virginia Academy of Science for the year 1948-49 is of special interest to our members in view of the work recently done and still being done in the revision of our Constitution, the development of appropriate committees, and the increasing interest in the work of the Junior Academy, the Science Fair, and the establishment of trust funds.

The Proceedings contain 192 pages. The contents include the list of presidents, committees for the year, general program awards, minutes of the council and of the Academy Conference, reports of the secretary-treasurer, and reports in abstract form of papers presented by the various sections.

The committees of the Virginia Academy are: Long-range Planning; Research Committee, Research Institute; Finance and Endowment; Junior Academy of Science; Speakers' Bureau, Junior Academy; Speakers' Bureau, Senior Academy; Science talent search; membership; James River project; Conservation and education; Virginia Flora; Virginia Fauna; Virginia Journal of Science; Science Museum; Place of Meeting, 1950; and Local Arrangements.

The sections of the Virginia Academy are Agricultural Sciences; Astronomy, Mathematics

and Physics; Bacteriology; Biology; Chemistry; Education; Engineering; Geology; Medical Sciences; Psychology; Science Teachers; and Statistics.

The main address of the Academy dinner was delivered by Dr. Howard A. Meyerhoff, Administrative Secretary of the AAAS, who spoke on the subject, "The Scientist in Politics." He emphasized the need for scientists to play a role that they may not relish: "The scientists will have to play the game of politics to obtain appropriations and to see that they are used properly." This, he said, was necessary "if scientific research is to be promoted properly in the United States." (p. 61).

The Journal of Southern Research

It will be of interest to some who wish to find further outlet for publication where publication is difficult, as it is in many fields, and to many who may wish to help support a journal dedicated to the study and development of the resources of the South, to learn about the new Journal of Southern Research (formerly the Journal of Southeastern Research). The new Journal issues its first volume in 1949.

The subjects included in its index for Vol. I, include Aeronautics, Atomic energy, Book reviews and publication notices, Chemistry, Education, Engineering, Patents and Inventions, Physics, Science-industry relations, Scientific research, Technological Society Activity, News briefs, Research vacancies in the South, and Professional notices.

The notice indicates that this Journal is the official publication of the Southern Association of Science and Industry, Inc., Headquarters Offices, 5009 Peachtree Road, Atlanta, Ga.